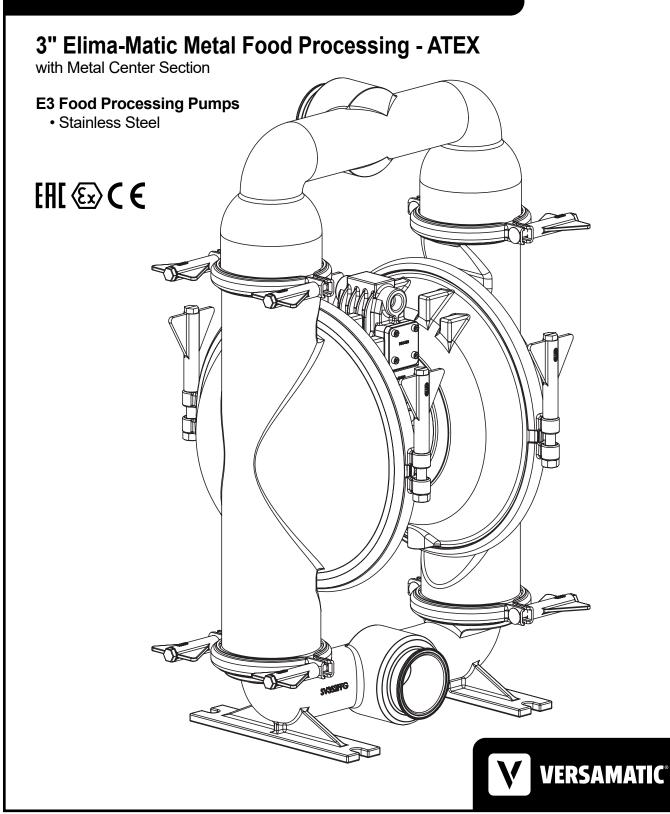
SERVICE & OPERATING MANUAL

ORIGINAL INSTRUCTIONS





800 North Main Street, Mansfield, OH 44902 USA Phone: (419) 526-7296 • www.versamatic.com © Copyright 2019 Warren Rupp, Inc. All rights reserved

Safety Information

IMPORTANT



Read the safety warnings and instructions in this manual before pump installation and start-up. Failure to comply with the recommendations stated in this manual could damage the pump and void factory warranty.



When the pump is used for materials that tend to settle out or solidify, the pump should be flushed after each use to prevent damage. In freezing temperatures the pump should be completely drained between uses.

A CAUTION



Before pump operation, inspect all fasteners for loosening caused by gasket creep. Retighten loose fasteners to prevent leakage. Follow recommended torques stated in this manual.

Plastic pumps and plastic components are not UV stabilized.

Ultraviolet radiation can damage these parts and negatively af-

fect material properties. Do not expose to UV light for extended



periods of time.

<u>WARNING</u> Pump not designed, tested or certified to be powered by compressed natural gas. Powering the pump with natural gas will void the warranty.



WARNING

The use of non-OEM replacement parts will void (or negate) agency certifications, including CE, ATEX, CSA, 3A and EC1935 compliance (Food Contact Materials). Warren Rupp, Inc. cannot ensure nor warrant non-OEM parts to meet the stringent requirements of the certifying agencies.

WARNING



When used for toxic or aggressive fluids, the pump should always be flushed clean prior to disassembly.



Before maintenance or repair, shut off the compressed air line, bleed the pressure, and disconnect the air line from the pump. Be certain that approved eye protection and protective clothing are worn at all times. Failure to follow these recommendations may result in serious injury or death.



Airborne particles and loud noise hazards. Wear eye and ear protection.



In the event of diaphragm rupture, pumped material may enter the air end of the pump, and be discharged into the atmosphere. If pumping a product that is hazardous or toxic, the air exhaust must be piped to an appropriate area for safe containment.



Take action to prevent static sparking. Fire or explosion can result, especially when handling flammable liquids. The pump, piping, valves, containers and other miscellaneous equipment must be properly grounded.



This pump is pressurized internally with air pressure during operation. Make certain that all fasteners and piping connections are in good condition and are reinstalled properly during reassembly.



Use safe practices when lifting

ATEX Pumps - Conditions For Safe Use

- 1. Ambient temperature range is as specified in tables 1 & 2 on the next page
- 2. ATEX compliant pumps are suitable for use in explosive atmospheres when the equipment is properly grounded in accordance with local electrical codes
- 3. Conductive Polypropylene, conductive Acetal or conductive PVDF pumps are not to be installed in applications where the pumps may be subjected to oil, greases and hydraulic liquids.
- When operating pumps equipped with non-conductive diaphragms that exceed the maximum permissible projected area, as defined in EN ISO 80079-36 : 2016 section 6.7.5 table 8, the following protection methods must be applied
 Equipment is always used to transfer electrically conductive fluids or
 - Explosive environment is prevented from entering the internal portions of the pump, i.e. dry running.



Temperature Tables

	r	Ï	ſ
Ambient Temperature	Process Temperature	Temperature	Maximum Surface
Range [°C]	Range [°C]	Class	Temperature [°C]
	-40°C to +80°C	Т5	T100°C
	-40°C to +108°C	T4	T135°C
-20°C to +60°C	-40°C to + 160°C	Т3	
	-40°C to +177°C	(225°C) T2	T200°C

Table 1. Category 2 ATEX Rated Pumps

Table 2. Category M2 ATEX Rated Pumps for Mining

Ambient Temperature	Process Temperature
Range [°C]	Range [°C]
-20°C to +60°C	-40°C to +150°C

<u>Note:</u> The ambient temperature range and the process temperature range should not exceed the operating temperature range of the applied plastic parts as listed in the manuals of the pumps.



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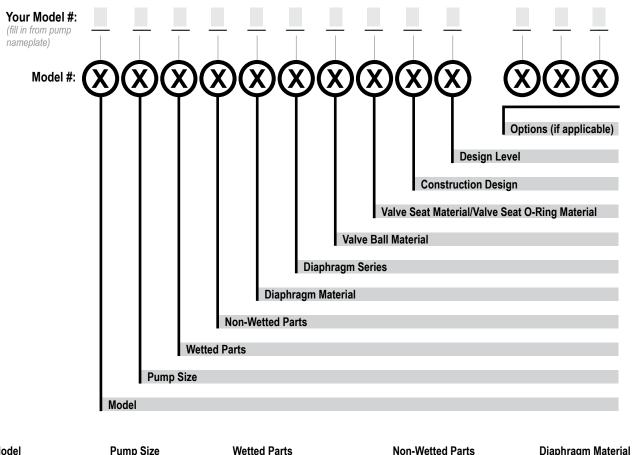
- Warranty
- EU Declaration of Conformity Machinery Directive
- EU Declaration of Conformity ATEX Directive
- √ EU Declaration of Conformity EC Regulation 1935/2004/EC



4: AIR END

Explanation of Pump Nomenclature

Your Serial #: (fill in from pump nameplate)



Model	Pump Size	Wetted Parts	Non-Wetted Parts	Diaphragm Material
E Elima-Matic	6 1/4"	A Aluminum	A Aluminum	1 Neoprene
U Ultra-Matic	8 3/8"	C Cast Iron	Stainless Steel	2 Nitrile (Nitrile)
V V-Series	5 1/2"	S Stainless Steel	P Polypropylene	3 FKM (Fluorocarbon)
	7 3/4"	H Alloy C	G Groundable Acetal	4 EPDM
	1 1"	P Polypropylene	Z PTFE-coated Aluminum	5 PTFE
	4 1-1/4" or 1-1/2"	K Kynar	J Nickel-plated Aluminum	6 Santoprene XL
	2 2"	G Groundable Acetal	C Cast Iron	7 Hytrel
	3 3"	B Aluminum (screen mount)	Q Epoxy-Coated Aluminum	Y FDA Santoprene
Diaphragm Series	Valve Ball Material Valve	Seat/Valve Seat O-Ring Material	Construction Design	Miscellaneous Options
R Rugged	1 Neoprene	1 Neoprene	9 Bolted	B BSP Tapered Thread
D Dome	2 Nitrile	2 Nitrile	0 Clamped	CP Center Port
X Thermo-Matic	3 (FKM) Fluorocarbon	3 (FKM) Fluorocarbon		ATEX ATEX Compliant
T Tef-Matic (2-piece)	4 EPDM	4 EPDM	Design Level	FP Food Processing
B Versa-Tuff (1-piece)	5 PTFE	5 PTFE	A	SP Sanitary Pump

- F FUSION (one-piece integrated plate)
- 6 Santoprene XL 6 Santoprene XL С 7 Hytrel 8 Polyurethane 8 Polyurethane A Acetal A Aluminum w/ PTFE O-Rings S Stainless Steel Stainless Steel w/ PTFE O-Rings Y FDA Santoprene C Carbon Steel w/ PTFE O-Rings H Alloy C w/ PTFE O-Rings T PTFE Encapsulated Silicone O-Rings
 - Y FDA Santoprene

*More than one option may be specified for a particular pump model.

7 Hytrel



VERSAMATIC

HP High Pressure

F Flap Valve

3A 3-A Certified

UL UL Listed

OB Oil Bottle

OE Original Elima-Matic

HD Horizontal Discharge

Materials

Material Profile:		Operating Temperatures:	
CAUTION! Operating temperature limitations are as follows:	Max.	Min.	
Conductive Acetal: Tough, impact resistant, ductile. Good abrasion resistance and low friction surface. Generally inert, with good chemical resistance except for strong acids and oxidizing agents.	190°F 88°C	-20°F -29°C	
EPDM: Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and alcohols.	280°F 138°C	-40°F -40°C	
FKM: (Fluorocarbon) Shows good resistance to a wide range of oils and sovents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F) will attack FKM.	350°F 177°C	-40°F -40°C	
Hytrel®: Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°C	
Neoprene: All purpose. Resistance to vegetable oils. Generally not affected by moderate chemicals, fats, greases and many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters and nitro hydrocarbons and chlorinated aromatic hydrocarbons.	200°F 93°C	-10°F -23°C	
Nitrile: General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C	
Nylon: 6/6 High strength and toughness over a wide temperature range. Moderate to good resistance to fuels, oils and chemicals.	180°F 82°C	32°F 0°C	

Polypropylene: A thermoplastic polymer. Moderate tensile and flex strength. Resists stong acids and alkali. Attacked by chlorine, fuming nitric acid and other strong oxidizing agents.	180°F 82°C	32°F 0°C		
PVDF: (Polyvinylidene Fluoride) A durable fluoroplastic with excellent chemical resistance. Excellent for UV applications. High tensile strength and impact resistance.	250°F 121°C	0°F -18°C		
Santoprene ®: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C		
UHMW PE: A thermoplastic that is highly resistant to a broad range of chemicals. Exhibits outstanding abrasion and impact resistance, along with environmental stress-cracking resistance.	180°F 82°C	-35°F -37°C		
Urethane: Shows good resistance to abrasives. Has poor resistance to most solvents and oils.		32°F 0°C		
Virgin PTFE: (PFA/TFE) Chemically inert, virtually impervious. Very few chemicals are known to chemically react with PTFE; molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.		-35°F -37°C		
Maximum and Minimum Temperatures are the limits for which these materials can be operated. Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of the temperature ranges.				
Metals:				
Alloy C: Equal to ASTM494 CW-12M-1 specification for nickel and nickel alloy.				
Stainless Steel: Equal to or exceeding ASTM specification A743 CF-8M for corrosion resistant iron chromium, iron chromium nickel and nickel based alloy castings for general applications. Commonly referred to as 316 Stainless Steel in the pump industry.				

For specific applications, always consult the Chemical Resistance Chart.

Note: This document is a high level guide. Please be aware that not all model and or material combinations are possible for all sizes. Please consult factory or your distributor for specific details.

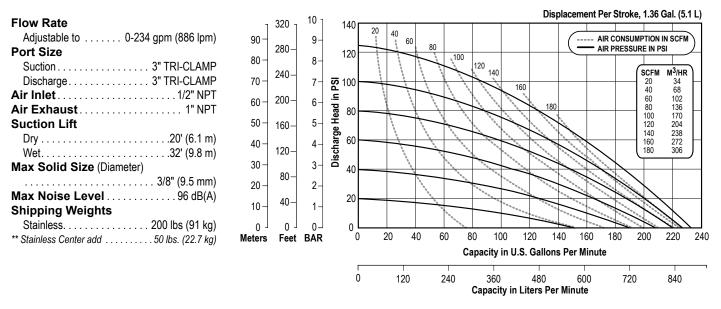


V

VERSAMATIC°

Performance

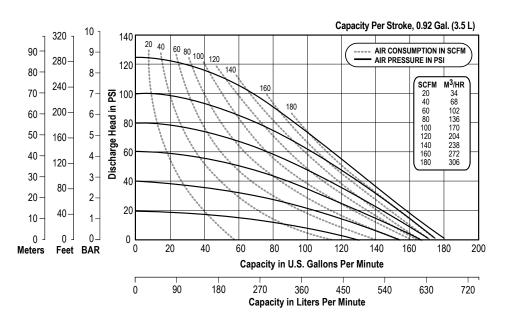
E3 3" Clamped - Food Processing TPE Fitted



NOTE: Performance based on the following: PTFE fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.

E3 3" Clamped - Food Processing PTFE Fitted

Flow Rate Adjustable to 0-180 gpm (681 lpm) Port Size
Suction 3" TRI-CLAMP
Discharge
Air Inlet
Air Exhaust 1" NPT
Suction Lift
Dry
Wet
Max Solid Size (Diameter)
Max Noise Level
Shipping Weights
Stainless 200 lbs (91 kg)
** Stainless Center add 50 lbs. (22.7 kg)

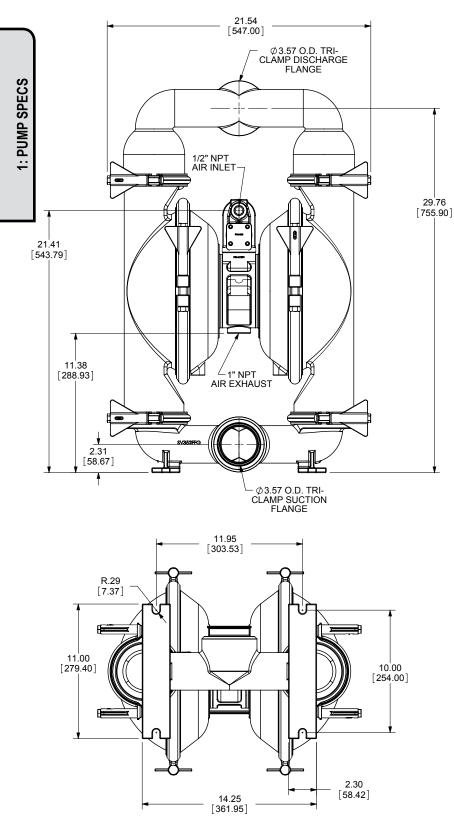


NOTE: Performance based on the following: PTFE fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.

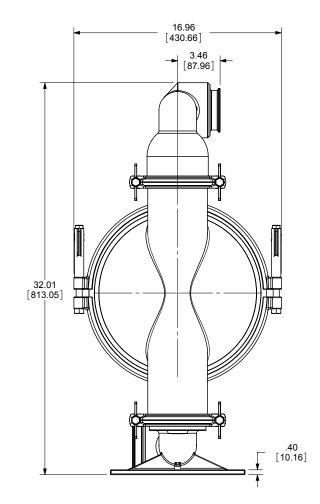


Dimensional Drawings

E3 Metal Food Processing Dimensions in inches (metric dimensions in brackets). Dimensional Tolerance .125" (3mm).

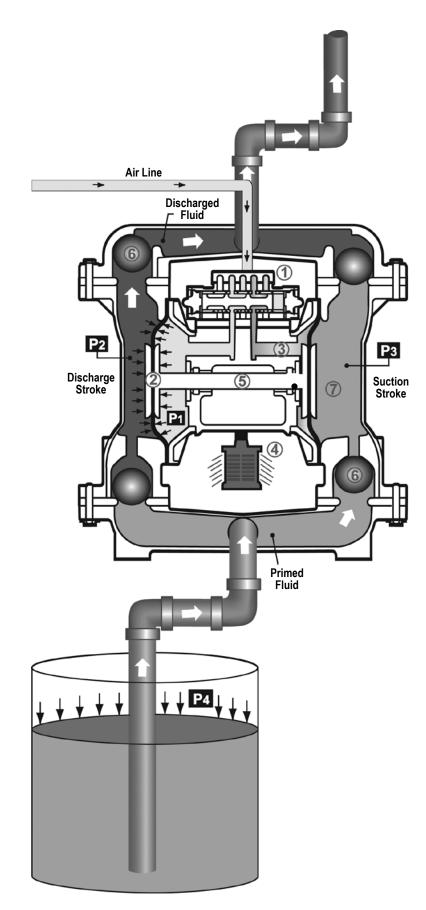


BOTTOM VIEW





Principle of Pump Operation



e3mdlCsmATEXFP-rev1219

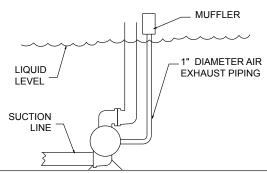
Air-Operated Double Diaphragm (AODD) pumps are powered by compressed air or nitrogen.

The main directional (air) control valve ① distributes compressed air to an air chamber, exerting uniform pressure over the inner surface of the diaphragm ②. At the same time, the exhausting air ③ from behind the opposite diaphragm is directed through the air valve assembly(s) to an exhaust port ④.

As inner chamber pressure (P1) exceeds liquid chamber pressure (P2), the rod ⑤ connected diaphragms shift together creating discharge on one side and suction on the opposite side. The discharged and primed liquid's directions are controlled by the check valves (ball or flap)⑥ orientation.

The pump primes as a result of the suction stroke. The suction stroke lowers the chamber pressure (P3) increasing the chamber volume. This results in a pressure differential necessary for atmospheric pressure (P4) to push the fluid through the suction piping and across the suction side check valve and into the outer fluid chamber \mathcal{D} .

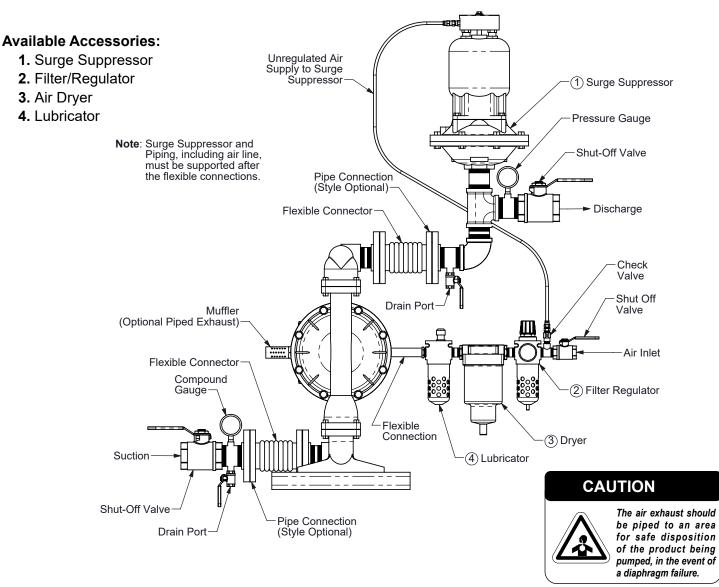
Suction (side) stroking also initiates the reciprocating (shifting, stroking or cycling) action of the pump. The suction diaphragm's movement is mechanically pulled through its stroke. The diaphragm's inner plate makes contact with an actuator plunger aligned to shift the pilot signaling valve. Once actuated, the pilot valve sends a pressure signal to the opposite end of the main directional air valve, redirecting the compressed air to the opposite inner chamber.



Pump can be submerged if the pump materials of construction are compatible with the liquid being pumped. The air exhaust must be piped above the liquid level. When the pumped product source is at a higher level than the pump (flooded suction condition), pipe the exhaust higher than the product source to prevent siphoning spills.

SUBMERGED ILLUSTRATION

Recommended Installation Guide



Installation And Start-Up

Locate the pump as close to the product being pumped as possible. Keep the suction line length and number of fittings to a minimum. Do not reduce the suction line diameter.

Air Supply

2: INSTAL & OP

Connect the pump air inlet to an air supply with sufficient capacity and pressure to achieve desired performance. A pressure regulating valve should be installed to insure air supply pressure does not exceed recommended limits.

Air Valve Lubrication

The air distribution system is designed to operate WITHOUT lubrication. This is the standard mode of operation. If lubrication is desired, install an air line lubricator set to deliver one drop of SAE 10 non-detergent oil for every 20 SCFM (9.4 liters/sec.) of air the pump consumes. Consult the Performance Curve to determine air consumption.

Air Line Moisture

Water in the compressed air supply may cause icing or freezing of the exhaust air, causing the pump to cycle erratically or stop operating. Water in the air supply can be reduced by using a point-of-use air dryer.

Air Inlet And Priming

To start the pump, slightly open the air shut-off valve. After the pump primes, the air valve can be opened to increase air flow as desired. If opening the valve increases cycling rate, but does not increase the rate of flow, cavitation has occurred. The valve should be closed slightly to obtain the most efficient air flow to pump flow ratio.



9 • Model E3 Metal Food Processing

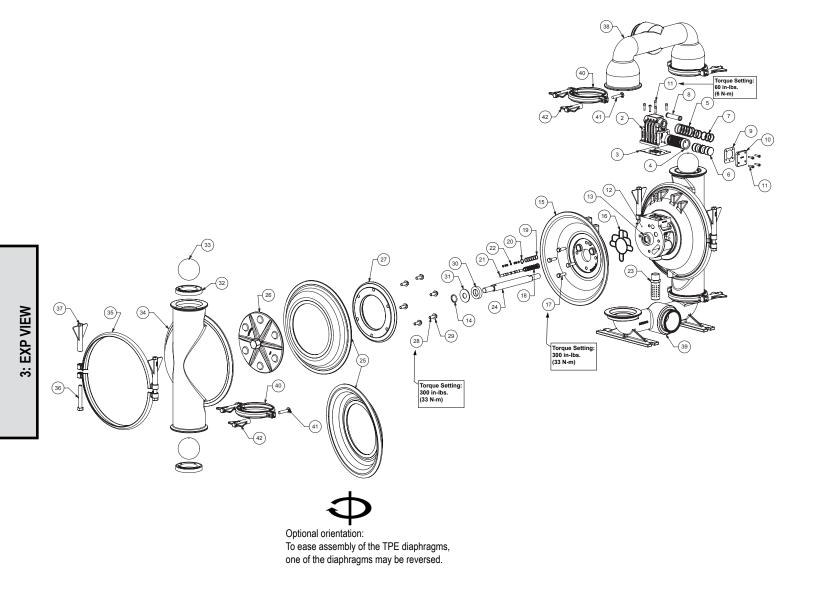
Troubleshooting Guide

Symptom:	Potential Cause(s):	Recommendation(s):
Pump Cycles Once	Deadhead (system pressure meets or exceeds air supply pressure).	Increase the inlet air pressure to the pump. Pump is designed for 1:1 pressure ratio at zero flow. (Does not apply to high pressure 2:1 units).
	Air valve or intermediate gaskets installed incorrectly.	Install gaskets with holes properly aligned.
	Bent or missing actuator plunger.	Remove pilot valve and inspect actuator plungers.
Pump Will Not Operate	Pump is over lubricated.	Set lubricator on lowest possible setting or remove. Units are designed for lube free operation.
/ Cycle	Lack of air (line size, PSI, CFM).	Check the air line size and length, compressor capacity (HP vs. cfm required).
/ • • • • • •	Check air distribution system.	Disassemble and inspect main air distribution valve, pilot valve and pilot valve actuators.
	Discharge line is blocked or clogged manifolds.	Check for inadvertently closed discharge line valves. Clean discharge manifolds/piping.
	Deadhead (system pressure meets or exceeds air supply pressure).	Increase the inlet air pressure to the pump. Pump is designed for 1:1 pressure ratio at zero flow. (Does not apply to high pressure 2:1 units).
	Blocked air exhaust muffler.	Remove muffler screen, clean or de-ice, and re-install.
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assembly.
	Pump chamber is blocked.	Disassemble and inspect wetted chambers. Remove or flush any obstructions.
Pump Cycles and Will	Cavitation on suction side.	Check suction condition (move pump closer to product).
Not Prime or No Flow	Check valve obstructed. Valve ball(s) not seating properly or sticking.	Disassemble the wet end of the pump and manually dislodge obstruction in the check valve pocket. Clean out around valve ball cage and valve seat area. Replace valve ball or valve seat if damaged. Use heavier valve ball material.
	Valve ball(s) missing (pushed into chamber or manifold).	Worn valve ball or valve seat. Worn fingers in valve ball cage (replace part). Check Chemical Resistance Guide for compatibility.
	Valve ball(s)/seat(s) damaged or attacked by product.	Check Chemical Resistance Guide for compatibility.
	Check valve and/or seat is worn or needs adjusting.	Inspect check valves and seats for wear and proper setting. Replace if necessary.
	Suction line is blocked.	Remove or flush obstruction. Check and clear all suction screens or strainers.
	Excessive suction lift.	For lifts exceeding 20' of liquid, filling the chambers with liquid will prime the pump in most cases.
	Suction side air leakage or air in product.	Visually inspect all suction-side gaskets and pipe connections.
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assembly.
Pump Cycles Running	Over lubrication.	Set lubricator on lowest possible setting or remove. Units are designed for lube free operation.
Sluggish/Stalling,	Icing.	Remove muffler screen, de-ice, and re-install. Install a point of use air drier.
Flow Unsatisfactory	Clogged manifolds.	Clean manifolds to allow proper air flow
	Deadhead (system pressure meets or exceeds air supply pressure).	Increase the inlet air pressure to the pump. Pump is designed for 1:1 pressure ratio at zero flow. (Does not apply to high pressure 2:1 units).
	Cavitation on suction side.	Check suction (move pump closer to product).
	Lack of air (line size, PSI, CFM).	Check the air line size, length, compressor capacity.
	Excessive suction lift.	For lifts exceeding 20' of liquid, filling the chambers with liquid will prime the pump in most cases.
	Air supply pressure or volume exceeds system hd.	Decrease inlet air (press. and vol.) to the pump. Pump is cavitating the fluid by fast cycling.
	Undersized suction line.	Meet or exceed pump connections.
	Restrictive or undersized air line.	Install a larger air line and connection.
	Suction side air leakage or air in product.	Visually inspect all suction-side gaskets and pipe connections.
	Suction line is blocked.	Remove or flush obstruction. Check and clear all suction screens or strainers.
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assembly.
	Check valve obstructed.	Disassemble the wet end of the pump and manually dislodge obstruction in the check valve pocket.
	Check valve and/or seat is worn or needs adjusting.	Inspect check valves and seats for wear and proper setting. Replace if necessary.
	Entrained air or vapor lock in chamber(s).	Purge chambers through tapped chamber vent plugs. Purging the chambers of air can be dangerous.
Product Leaking	Diaphragm failure, or diaphragm plates loose.	Replace diaphragms, check for damage and ensure diaphragm plates are tight.
Through Exhaust	Diaphragm stretched around center hole or bolt holes.	Check for excessive inlet pressure or air pressure. Consult Chemical Resistance Chart for compatibility with products, cleaners, temperature limitations and lubrication.
Premature Diaphragm	Cavitation.	Enlarge pipe diameter on suction side of pump.
Failure	Excessive flooded suction pressure.	Move pump closer to product. Raise pump/place pump on top of tank to reduce inlet pressure. Install Back pressure device (Tech bulletin 41r). Add accumulation tank or pulsation dampener.
	Misapplication (chemical/physical incompatibility).	Consult Chemical Resistance Chart for compatibility with products, cleaners, temperature limitations and lubrication.
	Incorrect diaphragm plates or plates on backwards, installed incorrectly or worn.	Check Operating Manual to check for correct part and installation. Ensure outer plates have not been worn to a sharp edge.
Unbalanced Cycling	Excessive suction lift.	For lifts exceeding 20' of liquid, filling the chambers with liquid will prime the pump in most cases.
	Undersized suction line.	Meet or exceed pump connections.
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assembly.
	Suction side air leakage or air in product.	Visually inspect all suction-side gaskets and pipe connections.
	Check valve obstructed.	Disassemble the wet end of the pump and manually dislodge obstruction in the check valve pocket.
	Check valve and/or seat is worn or needs adjusting.	Inspect check valves and seats for wear and proper setting. Replace if necessary.

For additional troubleshooting tips contact After Sales Support at service.warrenrupp@idexcorp.com or 419-524-8388



Composite Repair Parts Drawing - TPE Fitted



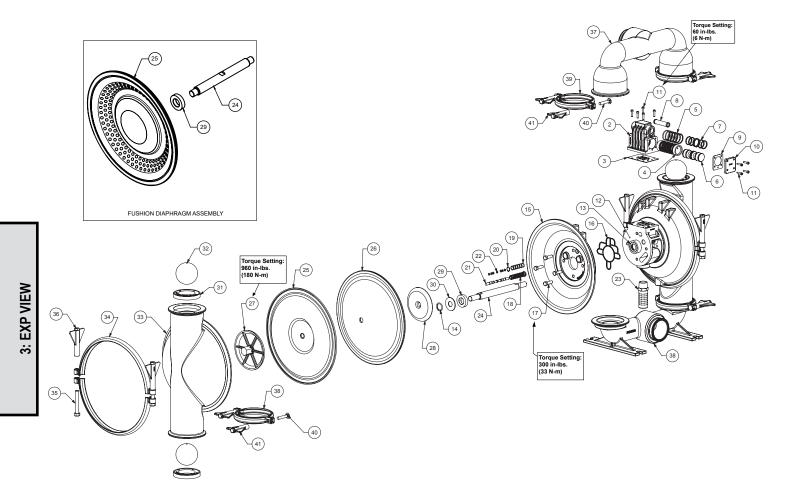


Composite Repair Parts List - TPE Fitted

		Air	/alve Assembly		
Item #	011		Part Number		
item #	Qty.	Description	Nickle Plated	Stainless Steel	
		Air Side Repair Kit (Includes Items 3,5,7,9,14,16,18-22)	476.V029.000	476.V030.000	
1	1	Valve Body (includes items 2-11)	031.V003.332	031.V003.110	
2	1	Valve Body	095.V001.332	095.V001.110	
3	1	Valve Body Gasket	P24-202		
4	1	Valve Sleeve		V005.148	
5	6	O-ring	560	.206.360	
6	1	Valve Spool Assembly (Includes items 7)		V001.000	
7	6	Glyde Ring Assembly		4-204F	
8	1	Air Valve Screen	P24-210	P34-210	
9	2	End Cap Gasket		24-205	
10	2	End Cap		234-300	
11	13	Mounting Screws (8 included on item 1)		51001	
		Center	Section Assembly		
Item #	Qty.	Description	Nickle Plated	Number	
12	1	Center Block Assembly (Includes item 13 & 14)	P34-400NP ASY	Stainless Steel SP34-400	
12	2	Bearing Sleeve		34-400	
13	2	Main Shaft O-Ring		34-403	
15	2	Air Chamber		V006.110	
16	2	Air Chamber Gasket		V001.360	
17	8	Bolt		234-110	
		Pilot Repair Kit (Includes Items 18-22)		V028.000	
18	1	Pilot Sleeve Assembly (include item 19)		V002.000	
19	6	O-ring		.101.358	
20	1	Retaining Ring	675	.037.080	
21	1	Pilot Spool Assembly (Includes item 22)		V006.000	
22	8	O-ring	560.023.358		
23	1	Muffler		.033.000	
		Diaphragm /	Assembly / Elastomers	Number	
Item #	Qty.	Description	FDA Hytrel	FDA Santoprene	
24	1	Main Shaft		34-103	
24	2	Diaphragm	V305TPEFG	V305TPEXLFG	
26	2	Outer Diaphragm Plate		302BFG	
27	2	Inner Diaphragm Plate	V302CNP	SV302C	
28	12	Bolt		/181F	
29	12	Washer	SV	/302GA	
30	2	Bumper Washer	P	34-501	
31	2	Back-Up Washer	V302E		
32	4	Valve Seat	V356TPEFG	V240TPEXLFG	
33	4	Valve Ball	V355TPEFG	V241TPEXLFG	
			End Assembly		
Item #	Qty.	Description	Part Number		
34	2	Water Chamber	SV350FG		
35	4	Large Clamp Half	SV311A		
36 37	4	Bolt Large Wing Nut	SV311C		
37	4	Discharge Manifold	FG11D SV351FG		
30 39	1	Suction Manifold	<u> </u>	352FFG	
40	8	Succion Manifold Small Clamp Half			
40	8	Bolt	SV354A SV354B		
41	8	Small Wing Nut		G30D	
74				0000	



Composite Repair Parts Drawing - PTFE Fitted





Composite Repair Parts List - PTFE Fitted

			Air Valve Assembly			
ltem #	Qty.	Description	Part Number			
	۵.9.	•	Nickle Plated Stainless Steel		Steel	
		Air Side Repair Kit (Includes Items 3,5,7,9,14,16,18-22)	476.V029.000		476.V030	.000
1	1	Valve Body (includes items 2-11)	031.V003.332		031.V003.110	
2	1	Valve Body	095.V00	1.332	095.V001	
3	1	Valve Body Gasket			4-202	
4	1	Valve Sleeve			/005.148	
5	6	O-ring			206.360	
6	1	Valve Spool Assembly (Includes items 7)			/001.000	
7 8	6	Glyde Ring Assembly Air Valve Screen	P24-2		I-204F P34-21	0
9	2	End Cap Gasket	FZ4-2		4-205	0
10	2	End Cap			34-300	
11	13	Mounting Screws (8 included on item 1)			1001	
			enter Section Assembly			
Item #	Qty.	Description	Nickle P		Number Stainless	Steel
12	1	Center Block Assembly (Includes item 13 & 14)	P34-40		SP34-4	
13	2	Bearing Sleeve	1.01.10		4-404	
14	2	Main Shaft O-Ring		P3	4-403	
15	2	Air Chamber		196.V	/006.110	
16	2	Air Chamber Gasket			I-109A	
17	8	Bolt			34-110	
40		Pilot Repair Kit (Includes Items 18-22)			(028.000	
18 19	1	Pilot Sleeve Assembly (include item 19)			/002.000	
20	6	O-ring Retaining Ring			101.358 037.080	
20	1	Pilot Spool Assembly (Includes item 22)			/006.000	
22	8	O-ring			023.358	
23	1	Muffler			033.000	
	-	Diaphr	agm Assembly / Elasto			
					Number	
Item #	Qty.	Description	Nickle Plated	FUSION	Stainless Stee PTFE Two Piece	FUSION
			PIFE IWO PIECE		I PIFE IWO PIECE I	
24	1	Main Shaft		P3/1-103E		P3/1-103E
24 25	1	Main Shaft Diaphragm	P34-103	P34-103F V305F	P34-103	P34-103F V305F
25	1 2 1	Diaphragm	P34-103 V305TF	V305F	P34-103 V305TF	V305F
	2	Diaphragm Back Up Diaphragm	P34-103 V305TF V305TFB	V305F N/A	P34-103 V305TF V305TFB	
25 26 27 28	2 1	Diaphragm	P34-103 V305TF	V305F	P34-103 V305TF	V305F N/A
25 26 27 28 29	2 1 2 2 2	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5	V305F N/A N/A N/A 01	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50	V305F N/A N/A N/A 1
25 26 27 28 29 30	2 1 2 2 2 2 2	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E	V305F N/A N/A N/A 01 N/A	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E	V305F N/A N/A N/A 1 N/A
25 26 27 28 29 30 31	2 1 2 2 2 2 4	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below)	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356	V305F N/A N/A 01 N/A xx	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E XV356>	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30	2 1 2 2 2 2 2	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A xx	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32	2 1 2 2 2 2 4 4	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356	V305F N/A N/A 01 N/A xx FF	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E XV356> V355T	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item #	2 1 2 2 2 4 4 Qty.	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A xx FF Part	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E XV356> V355T Number	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33	2 1 2 2 2 2 4 4	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A xx FF Part SV3	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E XV356> V355T Number 350FG	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35	2 1 2 2 2 4 4 4 Qty. 2	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A TF F Part SV3	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E XV356> V355T Number	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35 36	2 1 2 2 2 4 4 4 Qty. 2 4	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt Large Wing Nut	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A TF F Part SV3 SV SV SV SV	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E V302E V302E V355T Number 350FG /311A /311C G11D	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35 36 37	2 1 2 2 4 4 4 Qty. 2 4 4 4 4 1	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt Large Wing Nut Discharge Manifold	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A TF Part SV3 SV SV SV SV	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E V302E V302E V355T Number 350FG /311A /311C G11D 351FG	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35 36 37 38	2 1 2 2 4 4 Qty. 2 4 4 4 4 1 1	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt Large Wing Nut Discharge Manifold	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A XX TF Part SV3 SV SV SV SV SV3	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E V302E XV356> V355T Number 350FG /311A /311C G11D 351FG 52FFG	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35 36 37 38 39	2 1 2 2 4 4 Qty. 2 4 4 4 4 1 1 8	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt Large Wing Nut Discharge Manifold Small Clamp Half	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A TF TF Part SV3 SV SV SV SV SV SV SV SV SV SV SV SV SV	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E V302E V302E V355T Number 350FG /311A /311C G11D 351FG 52FFG /354A	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35 36 37 38 39 40	2 1 2 2 4 4 4 Qty. 2 4 4 4 1 1 8 8	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt Large Wing Nut Discharge Manifold Small Clamp Half Bolt Bolt Small Clamp Half Bolt Bolt Bolt Bolt Bolt Bolt Bolt Bolt	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A TF TF Part SV3 SV SV SV SV SV SV SV SV SV SV SV SV SV	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E V302E V302E V355T Number 350FG /311A /311C G11D 351FG 52FFG /354A /354B	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35 36 37 38 39 40 41	2 1 2 2 4 4 4 Qty. 2 4 4 4 1 1 8 8 8 8	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt Large Wing Nut Discharge Manifold Small Clamp Half Bolt Small Clamp Half Bolt	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A TF TF Part SV3 SV SV SV SV SV SV SV SV SV SV SV SV SV	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E V302E V302E V355T Number 350FG /311A /311C G11D 351FG 52FFG /354A /354B G30D	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35 36 37 38 39 40	2 1 2 2 4 4 4 Qty. 2 4 4 4 1 1 8 8	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt Large Wing Nut Discharge Manifold Small Clamp Half Bolt Small Clamp Half Bolt Small Clamp Half Bolt Bolt Small Clamp Half Bolt Small Clamp Half Bolt Small Clamp Half Bolt Small Kit (Not Pictured)	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V3557 Wet End Assembly	V305F N/A N/A 01 N/A TF TF Part SV3 SV SV SV SV SV SV SV SV SV SV SV SV SV	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E V302E V302E V355T Number 350FG /311A /311C G11D 351FG 52FFG /354A /354B	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35 36 37 38 39 40 41 42	2 1 2 2 4 4 4 Qty. 2 4 4 4 1 1 8 8 8 8 2	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt Large Wing Nut Discharge Manifold Small Clamp Half Bolt Small Clamp Half Bolt Small Wing Nut Discharge Kanifold	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V355	V305F N/A N/A 01 N/A TF TF TF SV3 SV SV SV SV SV SV SV SV SV SV SV SV SV	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E V302E V302E V355T Number 350FG /311A /311C G11D 351FG 52FFG /354A /354B G30D /006.000	V305F N/A N/A N/A 1 N/A X
25 26 27 28 29 30 31 32 Item # 33 34 35 36 37 38 39 40 41	2 1 2 2 4 4 4 Qty. 2 4 4 4 1 1 8 8 8 8 2 2	Diaphragm Back Up Diaphragm Outer Diaphragm Plate Inner Diaphragm Plate Bumper Washer Back-Up Washer Valve Seat (See Material Chart Below) Valve Ball Description Water Chamber Large Clamp Half Bolt Large Wing Nut Discharge Manifold Small Clamp Half Bolt Small Clamp Half Bolt Small Clamp Half Bolt Bolt Small Clamp Half Bolt Small Clamp Half Bolt Small Clamp Half Bolt Small Kit (Not Pictured)	P34-103 V305TF V305TFB SV302TOFG V302TINP P34-5 V302E xV356 V3557 Wet End Assembly	V305F N/A N/A 01 N/A TF TF Part SV3 SV SV SV SV SV SV SV SV SV SV SV SV SV	P34-103 V305TF V305TFB SV302TOFG SV302TI P34-50 V302E V302E V302E V355T Number 350FG /311A /311C G11D 351FG 52FFG /354A /354B G30D	V305F N/A N/A N/A 1 N/A X

Notes:

In addition to this seat, (4) V356T O-Rings are needed.



Material Codes - The Last 3 Digits of Part Number

- 000.....Assembly, sub-assembly; and some purchased items 010.....Cast Iron 015.....Ductile Iron 020.....Ferritic Malleable Iron 080.....Carbon Steel, AISI B-1112 110.....Alloy Type 316 Stainless Steel 111Alloy Type 316 Stainless Steel (Electro Polished) 112.....Alloy C 113.....Alloy Type 316 Stainless Steel (Hand Polished) 114.....303 Stainless Steel 115.....302/304 Stainless Steel 117.....440-C Stainless Steel (Martensitic) 120.....416 Stainless Steel (Wrought Martensitic) 148.....Hardcoat Anodized Aluminum 150.....6061-T6 Aluminum 152.....2024-T4 Aluminum (2023-T351) 155.....356-T6 Aluminum 156.....356-T6 Aluminum 157.....Die Cast Aluminum Alloy #380 158.....Aluminum Alloy SR-319 162.....Brass, Yellow, Screw Machine Stock 165.....Cast Bronze, 85-5-5-5 166.....Bronze, SAE 660 170.....Bronze, Bearing Type, Oil Impregnated 180.....Copper Alloy 305.....Carbon Steel, Black Epoxy Coated 306.....Carbon Steel, Black PTFE Coated 307.....Aluminum, Black Epoxy Coated 308.....Stainless Steel, Black PTFE Coated 309.....Aluminum, Black PTFE Coated 313.....Aluminum, White Epoxy Coated 330.....Zinc Plated Steel 332.....Aluminum, Electroless Nickel Plated 333.....Carbon Steel. Electroless Nickel Plated 335.....Galvanized Steel 337.....Silver Plated Steel 351.....Food Grade Santoprene® 353.....Geolast; Color: Black 354.....Injection Molded #203-40 Santoprene® Duro 40D +/-5; Color: RED 356.....Hytrel® 357.....Injection Molded Polyurethane 358.....Urethane Rubber (Some Applications) (Compression Mold) 359.....Urethane Rubber 360.....Nitrile Rubber Color coded: RED 363.....FKM (Fluorocarbon) Color coded: YELLOW
- 364.....EPDM Rubber Color coded: BLUE 365.....Neoprene Rubber Color coded: GREEN 366.....Food Grade Nitrile 368.....Food Grade EPDM 371.....Philthane (Tuftane) 374.....Carboxylated Nitrile 375.....Fluorinated Nitrile 378.....High Density Polypropylene 379.....Conductive Nitrile 408.....Cork and Neoprene 425.....Compressed Fibre 426.....Blue Gard 440.....Vegetable Fibre 500.....Delrin® 500 502.....Conductive Acetal, ESD-800 503.....Conductive Acetal, Glass-Filled 506.....Delrin® 150 520.....Injection Molded PVDF Natural color 540.....Nylon 542.....Nylon 544.....Nylon Injection Molded 550.....Polyethylene 551.....Glass Filled Polypropylene 552.....Unfilled Polypropylene 555.....Polyvinyl Chloride 556.....Black Vinyl 558.....Conductive HDPE 570.....Rulon II® 580.....Ryton® 600.....PTFE (virgin material) Tetrafluorocarbon (TFE) 603.....Blue Gylon® 604.....PTFE 606.....PTFE 607.....Envelon 608.....Conductive PTFE 610.....PTFE Encapsulated Silicon 611.....PTFE Encapsulated FKM 632.....Neoprene/Hytrel® 633.....FKM/PTFE 634.....EPDM/PTFE 635.....Neoprene/PTFE 637.....PTFE, FKM/PTFE 638.....PTFE, Hytrel®/PTFE 639.....Nitrile/TFE 643.....Santoprene®/EPDM 644.....Santoprene®/PTFE 656.....Santoprene® Diaphragm and Check Balls/EPDM Seats 661.....EPDM/Santoprene® 666.....FDA Nitrile Diaphragm, PTFE Overlay, Balls, and Seals 668.....PTFE, FDA Santoprene®/PTFE
- Delrin and Hytrel are registered tradenames of E.I. DuPont.
- Nylatron is a registered tradename of Polymer Corp.
- Gylon is a registered tradename of Garlock, Inc.
- Santoprene is a registered tradename of Exxon Mobil Corp.
- Rulon II is a registered tradename of Dixion Industries Corp.
- Ryton is a registered tradename of Phillips Chemical Co.
- Valox is a registered tradename of General Electric Co.

RECYCLING

Warren Rupp, manufacturer of Versamatic, is an ISO14001 registered company and is committed to minimizing the impact our products have on the environment. Many components of Versamatic® AODD pumps are made of recyclable materials. We encourage pump users to recycle worn out parts and pumps whenever possible, after any hazardous pumped fluids are thoroughly flushed. Pump users that recycle will gain the satisfaction to know that their discarded part(s) or pump will not end up in a landfill. The recyclability of Versamatic products is a vital part of Warren Rupp's commitment to environmental stewardship.

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5 - YEAR Limited Product Warranty

Quality System ISO9001 Certified • Environmental Management Systems ISO14001 Certified

Versamatic warrants to the original end-use purchaser that no product sold by Versamatic that bears a Versamatic brand shall fail under normal use and service due to a defect in material or workmanship within five years from the date of shipment from Versamatic's factory.

The use of non-OEM replacement parts will void (or negate) agency certifications, including CE, ATEX, CSA, 3A and EC1935 compliance (Food Contact Materials). Warren Rupp, Inc. cannot ensure nor warrant non-OEM parts to meet the stringent requirements of the certifying agencies.

~ See complete warranty at http://vm.salesmrc.com/pdfs/VM_Product_Warranty.pdf

DECLARATION OF CONFORMIT

DECLARATION DE CONFORMITE • DECLARACION DE CONFORMIDAD • ERKLÄRUNG BEZÜGLICH EINHALTUNG DER VORSCHRIFTEN DICHIARAZIONE DI CONFORMITÀ • CONFORMITEITSVERKLARING • DEKLARATION OM ÖVERENSSTÄMMELSE EF-OVERENSSTEMMELSESERKLÆRING • VAATIMUSTENMUKAISUUSVAKUUTUS • SAMSVARSERKLÄRING DECLARAÇÃO DE CONFORMIDADE

MANUFACTURED BY:

FABRIQUE PAR: FABRICADA POR: HERGESTELLT VON: FABBRICATO DA: VERVAARDIGD DOOR: TILLVERKAD AV: FABRIKANT: VALMISTAJA: PRODUSENT: FABRICANTE

VERSAMATIC ® Warren Rupp Inc. A Unit of IDEX Corporation 800 North Main Street P.O. Box 1568 Mansfield, OH 44901-1568 USA

Tel: 419-526-7296 Fax: 419-526-7289



PUMP MODEL SERIES: E SERIES, V SERIES, VT SERIES, VSMA3, SPA15, **RE SERIES AND U2 SERIES**

This product complies with the following European Community Directives:

Ce produit est conforme aux directives de la Communauté européenne suivantes: Este producto cumple con las siguientes Directrices de la Comunidad Europea: Dieses produkt erfüllt die folgenden Vorschriften der Europäischen Gemeinschaft: Questo prodotto è conforme alle seguenti direttive CEE: Dir produkt voldoet aan de volgende EG-richtlijnen:

Denna produkt överensstämmer med följande EU direktiv:

Versamatic, Inc., erklærer herved som fabrikant, at ovennævnte produkt er i overensstemmelse med bestemmelserne i Direkktive: Tämä tuote täyttää seuraavien EC Direktiivien vaatimukstet:

Dette produkt oppfyller kravene til følgende EC Direktiver:

Este produto está de acordo com as seguintes Directivas comunitárias:

This product has used the following harmonized standards to verify conformance:

Ce materiel est fabriqué selon les normes harmonisées suivantes, afin d'en garantir la conformité:

Este producto cumple con las siguientes directrices de la comunidad europa:

Dieses produkt ist nach folgenden harmonisierten standards gefertigtworden, die übereinstimmung wird bestätigt:

Questo prodotto ha utilizzato i seguenti standards per verificare la conformita':

De volgende geharmoniseerde normen werden gehanteerd om de conformiteit van dit produkt te garanderen:

För denna produkt har följande harmoniserande standarder använts för att bekräfta överensstämmelse:

Harmoniserede standarder, der er benyttet:

Tässä tuotteessa on sovellettu seuraavia yhdenmukaistettuja standardeja:

Dette produkt er produsert i overenstemmelse med fløgende harmoniserte standarder:

Este produto utilizou os seguintes padrões harmonizados para varificar conformidade:

AUTHORIZED/APPROVED BY:

Approuve par: Aprobado por: Genehmigt von: approvato da: Goedgekeurd door: Underskrift[.] Valtuutettuna: Bemyndiget av: Autorizado Por:

06/14/2017 REV 08



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on Machinery, according to Annex VIII

2006/42/EC

EN809:2012

DATE: February 27, 2017 FECHA: DATUM: DATA: DATO: PÄIVÄYS:

VMOR 044EM

Dave Roseberry Director of Engineering

osebe

Authorized Representative: **IDEX Pump Technologies** R79 Shannon Industrial Estate, Shannon, Co. Clare Ireland Attn: Barry McMahon

EU Declaration of Conformity			
Manufacturer: Versamatic A Unit of IDEX Corporation 800 North Main Street Mansfield, OH 44902 USA	<		
Warren Rupp, Inc declares that Air Operated Double Diaphragm Pur listed below comply with the requirements of Directive 2014/34/EU a	,		
Applicable Standards: • EN ISO 80079-36: 2016 • EN ISO 80079-37: 2016	• EN60079-25: 2010		
1. AODD Pumps and Surge Suppressors - Technical File No.: 2031	0400 -1410/MER		
Hazardous Location Applied:			
II 2 G Ex h IIC T5225°C (T2) Gb II 2 D Ex h IIIC T100°CT200°C Db			
 Metal pump models with external aluminum components (I Versa-Surge[®] surge suppressors (VTA-Series) 	E-series)		
2. AODD Pumps - Technical File No.: 20310400 -1410/MER - On File	With: DEKRA Certification B.V. (0344) Meander 1051 6825 MJ Arnhem		
Hazardous Location Applied:	The Netherlands		
I M2 Ex h Mb (Ex) II 2 G Ex h IIC T5225°C (T2) Gb II 2 D Ex h IIIC T100°CT200°C Db			
 Metal pump models with no external aluminum (E-Series) Conductive plastic pumps (E-Series Plastic) 			
See "Safety Information" page for conditions of safe use			
DATE/OF REVISION/TITLE: 19 DEC 2018	David Reseberry Dave Roseberry Director of Engineering		
	IEEX		

VM_DofC_ATEX_MetallicAndNon-Metallic_V_rev1218

VERSAMATIC

Declaration of Conformity

Manufacturer: Warren Rupp, Inc., 800 N. Main Street, Mansfield, Ohio, 44902 USA certifies that Elima-Matic[®] Air-Operated Double Diaphragm Food Processing and Sanitary Pump Models and Surge Suppressor Models comply with the European Community Regulations:

(EC) No 1935/2004 for Food Contact Materials (EC) No 2023/2006 Good Manufacturing Practice

(EU) No 10/2011 on plastic materials and articles intended to come in contact with food

Food Processing Pump Models:

E4SJ5T5S0-FP-ATEX E4SJ5F5S0-FP-ATEX E4SJ5T5S0-FP E4SJ5F5S0-FP E4SJYXYY0-FP E4SJ7X770-FP E1SPYX5S9C-FP E1SP7X759C-FP E1SP5T559C-FP E1SP5F559C-FP E5SP5T5S9C-FP E5SP5F5S9C-FP E5SPYX559C-FP E5SP7X7S9C-FP E1SJ5T559C-FP-ATEX E1SJ5F559C-FP-ATEX E1SJ7X759C-FP-ATEX E1SJYX559C-FP-ATEX E2SJ5T5S0C-FP-ATEX E2SJ5F5S0C-FP-ATEX E2SJ7X770C-FP-ATEX

E2SJ7D770C-FP-ATEX E2SS7D770C-FP-ATEX E2SJYXYY0C-FP-ATEX E2SSYXYY0C-FP-ATEX E2SS7X770C-FP-ATEX E3SJYXYY0C-FP-ATEX E3SJ5T550C-FP-ATEX E3SJ5F550C-FP-ATEX E3SJ5T5S0C-FP-ATEX E3SJ5F5S0C-FP-ATEX E3SJ7X770C-FP-ATEX E3SSYXYY0C-FP-ATEX E3SS7X770C-FP-ATEX E3SS5T550C-FP-ATEX E3SS5F550C-FP-ATEX E3SS5T5S0C-FP-ATEX

Surge Suppressor Models:

VDA051SPTNS00 VTA1,NG1SS. VTA25,NG1SS.

Surge Suppressor Models cont.:

VTA1 1/2,NG1SS. VTA40,NG1SS. VTA2,NG2SS. VTA50,NG2SS. VTA3,NG2SS. VTA80,NG2SS.

Sanitary Pump Models:

E4SJYXY40-SP E4SJ7X750-SP E2SJYXY40C-SP-ATEX E2SJ7X750C-SP-ATEX E4SJ5T550-SP-ATEX E4SJ5F550-SP-ATEX E2SJ5F550C-SP-ATEX E2SS5F550C-SP-ATEX E2SS5F550C-SP-ATEX E2SSF550C-SP-ATEX E2SS7X750C-SP-ATEX

Materials used in equipment intended for food contact (Annex I (EC) No 1935/2004) : • Rubber • Metals & Alloys • Plastics

Plastic Materials: PTFE and FKM/ PTFE coated

The plastic components are suitable to come in contact with multiple food types, provided that storage contact time does not exceed 1/2 hour, contact temperature does not exceed 40°C and maximum operating temperatures within the instructions manual are not exceeded. Diaphragm failure may allow process fluids to come in contact with nonconforming materials. Regular inspections are recended.

- This Declaration is based on :
 - · Declaration of Conformities from raw material suppliers
 - Total Migration Analysis per (EU) No 10/2011

· Supporting document will be made available to competent authorities to demonstrate compliance

avid Koseberry

Signature of authorized person

David Roseberry Printed name of authorized person February 8, 2013 Date of issue

Director of Engineering

Title

February 6, 2018 Date of revision